

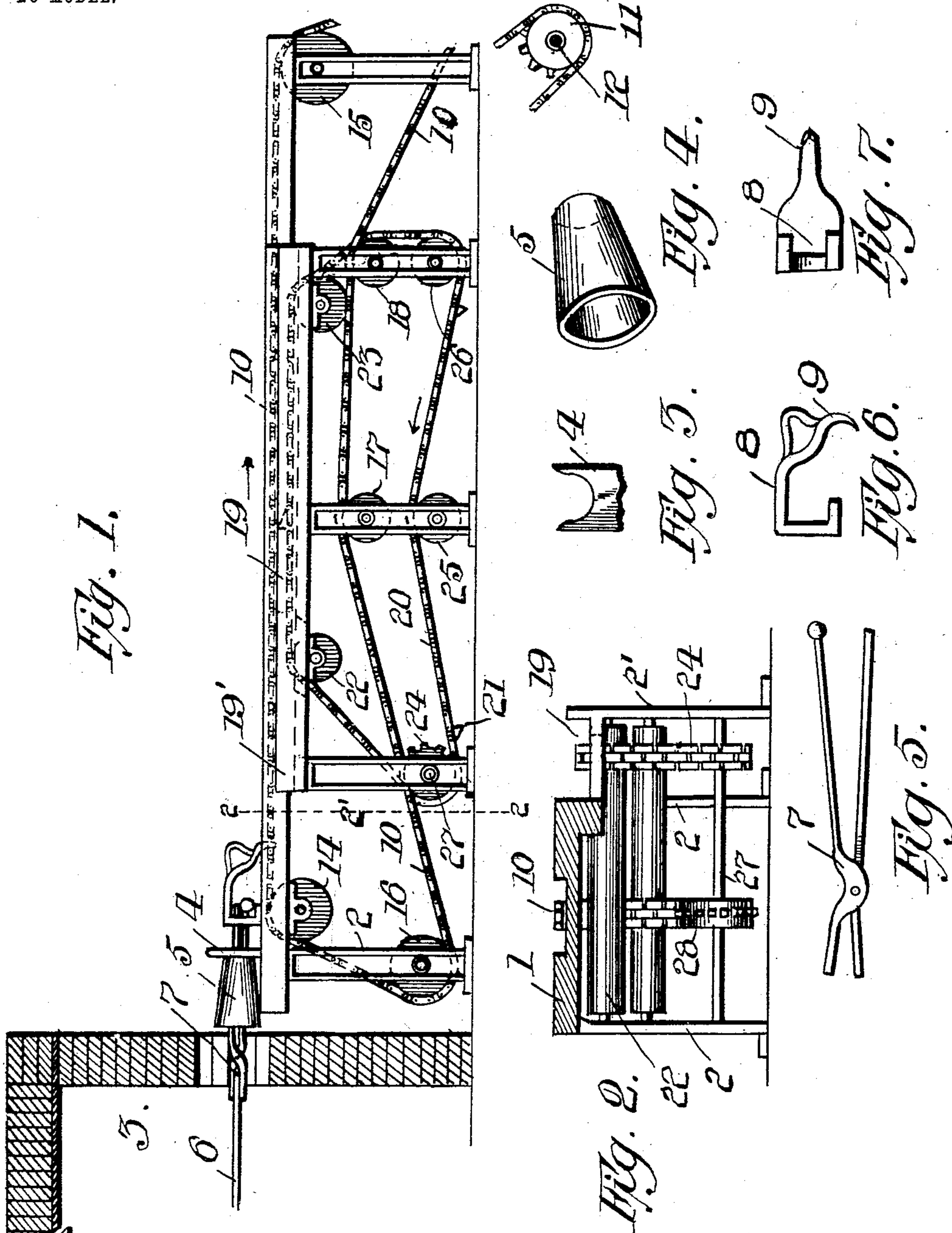
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C. JARRETT.
ENDLESS CONVEYER FOR PIPE MILLS.

APPLICATION FILED AUG. 28, 1903.

NO MODEL.



Witnesses:
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CHARLES JARRETT, OF DRAVOSBURG, PENNSYLVANIA.

ENDLESS CONVEYER FOR PIPE-MILLS.

SPECIFICATION forming part of Letters Patent No. 751,795, dated February 9, 1904.

Application filed August 28, 1903. Serial No. 171,096. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JARRETT, a citizen of the United States of America, residing at Dravosburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Endless Conveyers for Pipe-Mills, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in endless conveyers for pipe-mills, and has for its main object the construction of a conveyer or bench by means of which the hook employed for holding the
15 tongs may be carried back to the welder to be again used without the necessity of having a person to carry this hook back from the rear end of the bench to the front end thereof where it may be again used.

20 In the present method of butt-welding it is the practice to have a boy or man at the rear end of the bench or table whose duty it is to carry back to the welder the hook that is engaged with the tongs while the latter is drawing
25 a sheet through the bell and butt-welding the same into a pipe. My invention aims to dispense with the services of this extra man or boy and provide means in connection with the bench for returning the hook to the welder; and it consists of a bench or table in the bed
30 of which travels an endless chain, with which is engaged the hook that is placed over the pipe-tongs after the latter have been engaged with the sheet of material that is to be welded
35 into a pipe. At one side of this bench or table is a trough, in which also travels an endless chain, which is provided with catches to engage with the hooks when the latter are placed
40 in the trough, so as to carry them to the forward end of the trough in position to be received by the welder and again used. This
45 latter chain is driven by the same driving means as is employed for the chain traveling in the bed of the table or bench.

50 The invention in detail will be hereinafter more specifically described and then particularly pointed out in the accompanying claims, and in describing said invention in detail reference will be had to the accompanying drawings, forming a part of this specification, and

wherein like numerals of reference will be employed for indicating like parts throughout the different views of the drawings, in which—

Figure 1 is a side elevation of my improved conveyer, showing a part of a furnace in section. Fig. 2 is a transverse vertical sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a front elevation, partly broken away, of the stop for the bell. Fig. 4 is a detached detail perspective view of the bell. Fig. 5 is a side
55 elevation of the pipe-tongs. Fig. 6 is a side elevation of the hook, and Fig. 7 is an underneath plan view of the same.

As heretofore stated, my invention relates to the conveyer for returning the hooks to the welder, and consequently the pipe-tongs, the bell, the stop to be engaged by said bell, and the hook which is engaged with the pipe-tongs may be of the same form of construction as those generally employed at the present time.

70 The device comprises a bench or table 1, suitably supported, as by legs 2 2, as shown, and disposed in front of the furnace 3. Near the front of the bench or table is placed a stop 4, to be engaged by the rear end of the bell 5, through which latter the sheet 6 is drawn by means of the tongs 7 for the purpose of forming said sheet into a pipe and butt-welding same as it is drawn therethrough. What is generally termed as a "hook" in the
80 trade consists of a block or body 8, carrying a hook 9 and slotted on its underneath side, so as to slip down over the handles of the tongs, back of the knobs on the ends of the handles. The table or bench is placed so as
85 to aline with the opening in the furnace, and traveling over this bed or table, centrally thereof, is an endless conveyer-chain 10, with which the hook 9 is adapted to be engaged. This chain engages and is driven by sprocket-
90 wheel 11, carried on the drive-shaft 12, and passes over guide-rollers 14 15 near the front and rear of the bench or table, respectively, and over guide-rollers 16, 17, and 18, carried on shafts journaled in the legs of the bench
95 or table. Arranged at the side of the bench or table and supported thereby and by supporting-legs 2' is a trough 19, in which travels an endless conveyer-chain 20, provided with a plurality of hooks or catches 21. This
100

chain 20 travels over guide-rollers 22 23 near the forward and rear ends of the trough, respectively, engages a sprocket-wheel 24, and passes over guide-rollers 25 26, carried on shafts journaled in the supporting-legs. The sprocket-wheel 24 is carried on a shaft 27, which also carries a sprocket-wheel 28 to be engaged by the chain 10 whereby to rotate said shaft 27, and thus drive the chain 20 in unison with but in a different direction of travel to that of the chain 10. The chain 20 leaves the trough 19 before reaching the forward end thereof, and on this portion 19' of the trough, at the forward end thereof, the hook 8 is adapted to be deposited, whereby it will be in position to be received by the welder.

In operation when the tongs have been engaged with the sheet to be welded and the hook engaged on the tong-handles, the hook member 9 being engaged with the chain 10, it will be observed that the sheet will be drawn through the bell whereby to form the pipe, and as the hook reaches the rear end of the table or bench the attendant stationed there removes the hook and deposits same in the rear end of the trough 19, where one of the catches 21 engages the said hook and carries the same to the forward end of the trough, and as the hook passes onto the extension 19' at forward end of the trough the catch 21 will disengage from the hook, leaving the latter deposited at the forward end of the trough in position to be received by the welder. It will be observed, therefore, that but two attendants are required at the table or bench—namely, the welder and the person at the rear end of the table or bench to remove the hooks and place the same in the trough to be carried back to the welder again, thus dispensing with the services of a third attendant to carry the blocks or hooks from the rear to the front of the table or bench for use.

In the accompanying illustration and foregoing description I have given a practical embodiment of my invention which involves two endless chains traveling in unison in opposite directions, and in the practice of the invention it will be apparent that various changes may

be made in the details of construction without departing from the general spirit of the invention, and I therefore do not desire to confine myself to the specific construction herein shown and described.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the character described, a bed or bench, an endless chain traveling in said bed or bench, means for driving said chain, a trough arranged at the side of the bed or bench, and an endless chain traveling in said trough in the opposite direction to the first-mentioned chain, substantially as described.

2. An endless conveyer for pipe-mills, comprising a bed or bench, an endless conveyer-chain traveling therein, a trough at the side of said bed or bench, an endless chain traveling in said trough in the opposite direction to the travel of the conveyer-chain, and means for driving said chains in unison, substantially as described.

3. An endless conveyer for pipe-mills, comprising a bench having an endless conveyer-chain traveling therein, a trough at the side of said bench below the plane thereof with an endless chain traveling in said trough in the opposite direction to the travel of the conveyer-chain, and means for driving said chains.

4. In an endless conveyer for pipe-mills, a bench and a trough arranged side by side, conveyer-chains traveling in said bench and trough, means for driving the chains, the chain of the trough being mounted to the rear of the forward end thereof.

5. In a conveyer for pipe-mills, a bench and a trough, conveyer-chains traveling in each, means for driving the chains, the trough being arranged to the rear of the forward end of the bench, the chain of the trough being mounted to the rear of the front end thereof.

In testimony whereof I affix my signature in the presence of two witnesses.

CHARLES JARRETT.

Witnesses:

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A. GIRARD.